Lower Passaic River Study Area Draft February 2015 Remedial Investigation Report
Discussion of Modeling Comments and Direction for Revisions
Date: May 12, 2016
Agenda

Introductions/Opening Remarks

EPA concerns by priority

- CFT model – Partitioning – 3.b
- CFT model – Fluff layer – 3.d, 3.c, 3.e
- Bioaccumulation model – Benthic biomass composition – 4.f
- Bioaccumulation model – No time variable calibration – 4.a
- Bioaccumulation model – No spatial calibration – 4.b
- CFT/Bioaccumulation model – No partitioning to DOC – 4.d
- Bioaccumulation model – Sediment exposure depth – 4.c

- CFT model – Bulk density impact on computed concentrations – 3.f
- ST model – grain stress partitioning – 1.b
- ST model – decoupled mode – 1.a

- OC model – model data comparisons – 2.a
- OC model – mass balance – 2.b

- Looking forward to the FS – The ST, OC, CFT, and bioaccumulation models must represent:
    - the release of solids, carbon, and contaminant associated with dredging
    - the change in bathymetry associated with dredging and subsequent capping
    - the change in solids, carbon, and contaminant in the bed associated with capping

CPG questions

- CFT model – Potential to represent kinetic partitioning
- CFT Model – Partitioning to sands
- CFT model – Fluff layer representation
- CFT model – Number of calibration contaminants
- Additional CPG questions?

Action Items

Plans for additional discussions (meeting dates TBD)

1. Clarification of questions on individual comments
2. CPG presentation of plans to address Comments, Attachment 3

Draft RI Comments Attachment 3 – Revisions

1. ST Model
    a. Decoupled Mode
        - particularly looking forward towards bed elevation changes during active remediation
    b. Grain Stress Partitioning
        - large changes in grain size over time
    c. Simulation of remediation and projections
        - for purposes of planning for FS simulations
2. OC Model
    a. Model data comparisons
    b. Mass balance
    c. Simulation of remediation and projections
        - for purposes of planning for FS simulations
3. CFT Model
    a. Mapping
        - Progress has been made since the Draft RI
    b. Partitioning
        - CPG to propose potential kinetic approach?
    c. Fluff layer – Exchange with water column
    d. Fluff layer – Properties from ST model
    e. Fluff layer – Exchange with bed
    f. Bulk density impacts on mass balance
    g. Simulation of remediation and projections
        - for purposes of planning for FS simulations
4. Bioaccumulation Model
    a. Time variable calibration
    b. Spatial averaging
    c. Exposure depth
    d. DOC partitioning
    e. Averaging of exposure concentrations in linkage files
    f. Benthic biomass composition